

EYEPiece TO INSTRUMENT COUPLER

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CLAIMS

I claim and therefore seek protection secured by Letters of Patent for the following:

1. A mechanical Coupler able to make and hold an optical connection between the Eyepiece of viewing device such as but not limited to telescopes, binoculars, microscopes, otto-scopes etc., to a camera or some other form of image recording Instrument, that is complete requiring no other adapter or attachment. Said coupler comprising:

- (a) a clamping component or mechanism attachable to said Eyepiece of a viewing device.
- (b) a base bracket with provision for attachment to said clamping component by a supporting post, said base bracket cut with a slot extended perpendicular to and from said post and through which slot is inserted a tripod socket screw able to slide laterally up and down said base bracket to or from said post.
- (c) a post connected in a adjustable, positionable manner to said clamping component on one end of the said post and said slotted base bracket on the other end of said post.
- (d) a tripod socket screw with an undercut on the threads, engagable to the slot in the base bracket, threadable through the bracket and freely slidable up and down the length of the slot and threadable into said Instrument.
- (e) a jam nut or similar, positioned and releasably engaged upon said post to secure position between said post and said base bracket.

2. An Eyepiece to Instrument Coupler according to claim 1, that has a conformable clamping mechanism roughly sized and shaped to be attachable and positionable upon said Eyepiece of a viewing device, a base bracket with slot, attachable and positionable to said Instrument by a tripod socket screw and an adjustable post attached positionably and perpendicularly between said clamping mechanism on one end and said Instrument on the other.

3. An eyepiece to instrument Coupler according to claim 1, that has a clamping mechanism comprised of an outer containment band with a releasably diametrical reductive coaxial interior aperture roughly sized and shaped to fit over and clampable onto the barrel of said Eyepiece, shortened in the axial direction to allow enough of said Eyepiece barrel to remain exposed for a securable fit into said viewing device.

4. An eyepiece to instrument Coupler according to claim 1, that has a clamping mechanism comprised of an outer containment band with a releasably diametrical reductive coaxial interior aperture roughly sized and shaped to fit over and clampable onto the head of said Eyepiece or over the shroud of said Eyepiece that is non-removable.

5. An eyepiece to instrument Coupler according to claim 1, that has a adjustable post attached to and extending away along a perpendicular plane, from the coaxis of the interior aperture of said clamping mechanism being securely and releasably positionable at a selectable distance from said base bracket connected perpendicularly to the opposite end of said post.

6. An eyepiece to instrument Coupler according to claim 5, having said adjustable post with threads or stops machined into it or attached to it coaxially along said post's longitudinal axis, having said clamping mechanism and base bracket connected at alternate ends of said post with one, the other or both selectively held and positionably spaced apart, separation along the longitudinal axis of the post is repeatable and releasably held with independent orientation about the longitudinal axis of said post such that said Instrument is movable away from said Eyepiece of viewing device and then returnable and releasably held without need for realignment.

7. An eyepiece to instrument Coupler according to claim 1, that has a base bracket releasably attached to and rotatable around the radial axis of said post and having a perpendicular slot extended radially away from said post, for a tripod socket screw that when fully engaged in said base bracket is freely engagable to said Instrument so that said Instrument thusly attached to said base bracket by means of the tripod socket screw is releasably held to a repeatable optical alignment between said Eyepiece of viewing device and image recording Instrument.

8. An eyepiece to instrument Coupler according to claim 1, that has a base bracket with an attachment point for said post, a base plane running perpendicular to said post, a vertical through slot extended radially away from said post, a tapped hole congruous to one end of said slot for a tripod socket screw that when fully engaged in said base bracket is retained, slidable, rotatable and freely engagable to said Instrument.